GWT - DEPLOY APPLICATION

http://www.tutorialspoint.com/gwt/gwt_deploy_application.htm

This tutorial will explain you how to create an application **war** file and how to deploy that in Apache Tomcat Websever root. If you understood this simple example then you will also be able to deploy a complex GWT application following the same steps.

Let us have working Eclipse IDE along with GWT plug in place and follow the following steps to create a GWT application:

Step	Description
1	Create a project with a name *HelloWorld* under a package *com.tutorialspoint* as explained in the *GWT - Create Application* chapter.
2	Modify *HelloWorld.gwt.xml*, *HelloWorld.css*, *HelloWorld.html* and *HelloWorld.java* as explained below. Keep rest of the files unchanged.
3	Compile and run the application to make sure business logic is working as per the requirements.
4	Finally, zip the content of the **war** folder of the application in the form of war file and deploy it in Apache Tomcat Webserver.
5	Launch your web application using appropriate URL as explained below in the last step.

Following is the content of the modified module descriptor **src/com.tutorialspoint/HelloWorld.gwt.xml**.

```
<?xml version="1.0" encoding="UTF-8"?>
<module rename-to='helloworld'>
  <!-- Inherit the core Web Toolkit stuff.                        -->
  <inherits name='com.google.gwt.user.User'/>

  <!-- Inherit the default GWT style sheet.                       -->
  <inherits name='com.google.gwt.user.theme.clean.Clean'/>

  <!-- Specify the app entry point class.                         -->
  <entry-point class='com.tutorialspoint.client.HelloWorld'/>

  <!-- Specify the paths for translatable code                    -->
  <source path='client'/>
  <source path='shared'/>

</module>
```

Following is the content of the modified Style Sheet file **war/HelloWorld.css**.

```
body {
   text-align: center;
   font-family: verdana, sans-serif;
}
h1 {
  font-size: 2em;
  font-weight: bold;
  color: #777777;
  margin: 40px 0px 70px;
  text-align: center;
}
```

Following is the content of the modified HTML host file **war/HelloWorld.html**.

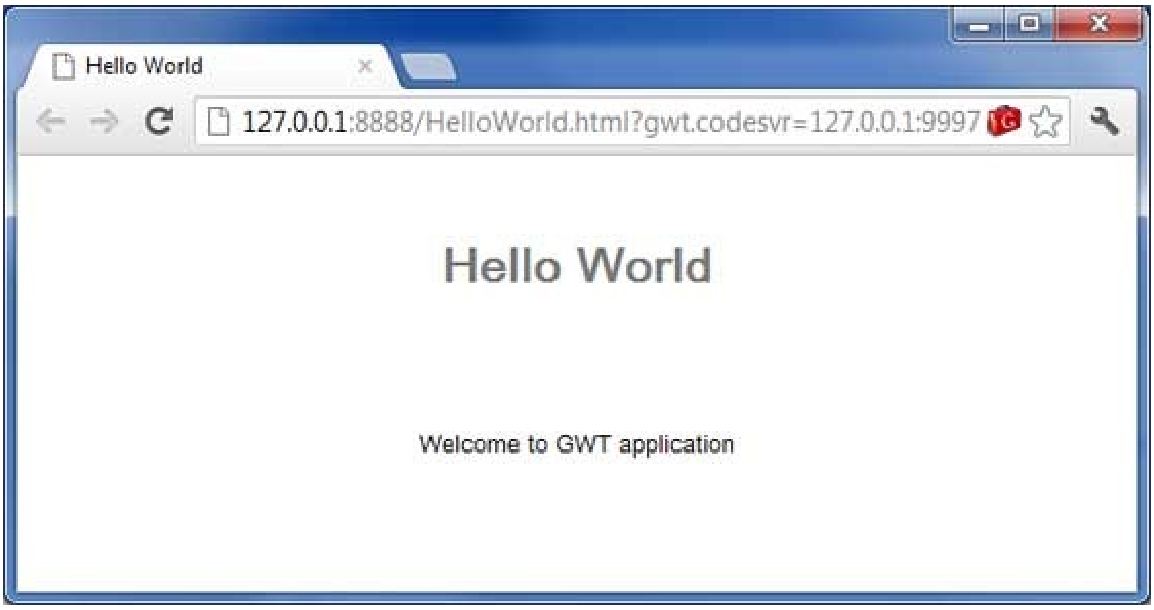
```
<html>
<head>
<title>Hello World</title>
   <link rel="stylesheet" href="HelloWorld.css"/>
   <script language="javascript" src="helloworld/helloworld.nocache.js">
   </script>
</head>
<body>

<h1>Hello World</h1>
<div ></div>

</body>
</html>
```

I modified HTML a little bit from previous example. Here I created a placeholder <div>...</div> where we will insert some content using our entry point java class. So let us have following content of Java file **src/com.tutorialspoint/HelloWorld.java**.

```
package com.tutorialspoint.client;

import com.google.gwt.core.client.EntryPoint;
import com.google.gwt.user.client.ui.HTML;
import com.google.gwt.user.client.ui.RootPanel;

public class HelloWorld implements EntryPoint {
   public void onModuleLoad() {
      HTML html = new HTML("<p>Welcome to GWT application</p>");

      RootPanel.get("gwtContainer").add(html);
   }
}
```

Here we created on basic widgest HTML and added it inside the div tag having . We will study different GWT widgets in coming chapters.

Once you are ready with all the changes done, let us compile and run the application in development mode as we did in GWT - Create Application chapter. If everything is fine with your application, this will produce following result:



Hello World

Welcome to GWT application

Create WAR File

Now our applictaion is working fine and we are ready to export it as a war file. Follow the following steps:

- Go into your project's **war** directory **C:\workspace\HelloWorld\war**
- Select all the files & folders available inside war directory.
- Zip all the selected files & folders in a file called *HelloWorld.zip*.
- Rename *HelloWorld.zip* to *HelloWorld.war*.

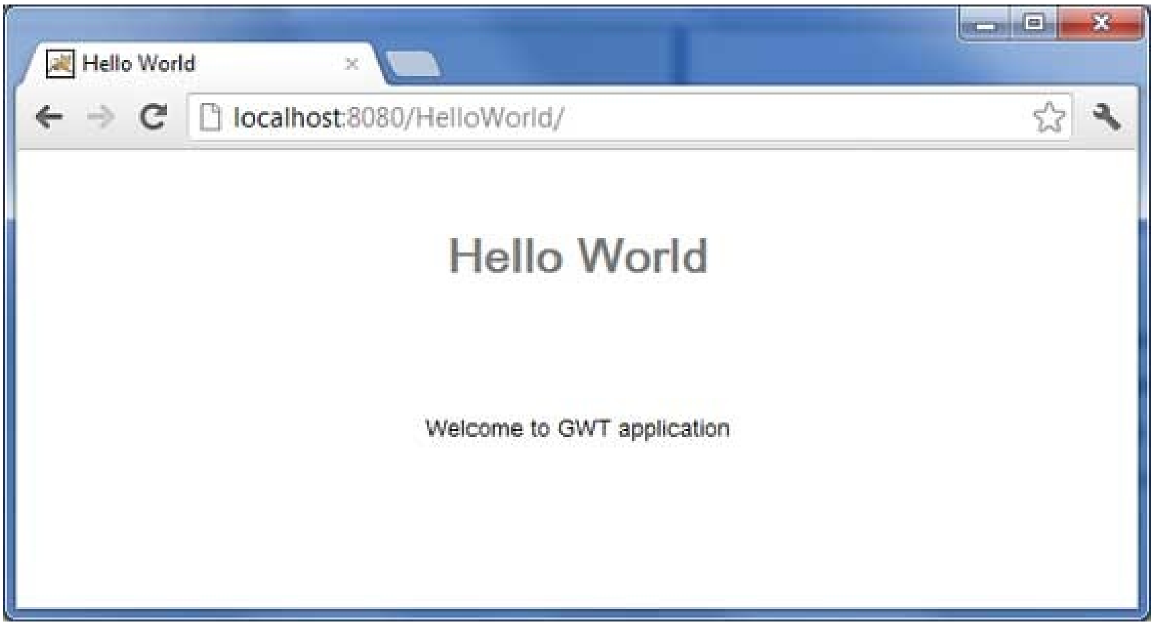
Deploy WAR file

- Stop the tomcat server.
- Copy the *HelloWorld.war* file to **tomcat installation directory > webapps folder.**
- Start the tomcat server.
- Look inside webapps directory, there should be a folder **helloworld** got created.
- Now HelloWorld.war is successfully deployed in Tomcat Webserver root.

Run Application

Enter a url in web browser: **http://localhost:8080/HelloWorld** to launch the application

Server name (localhost) and port (8080) may vary as per your tomcat configuration.



Hello World

Welcome to GWT application